

AIDS VIRUS VACCINES USING SENDAI VIRUS VECTORAbstract of the Disclosure

The present invention provides a vaccine containing a
5 Sendai virus vector encoding a virus protein of an
immunodeficiency virus. By intranasally administering a Sendai
virus encoding a virus protein of an immunodeficiency virus to a
macaque monkey, the present inventors have succeeded in
efficiently inducing protective immunity against an
10 immunodeficiency virus. As a result of intranasal inoculation
of vaccine, expression of an antigen protein mediated by Sendai
virus vector was detected in intranasal mucous membrane and
local lymph nodes and antigen-specific cellular immune response
was induced at a significant level. No pathological symptom by
15 vaccination was observed. After vaccination, exposure of simian
immunodeficiency virus was performed and the effect was
examined. As a result, the amount of virus in plasma
significantly decreased, compared with that of the control
animal. The present invention provides a promising vaccine as
20 an AIDS vaccine.